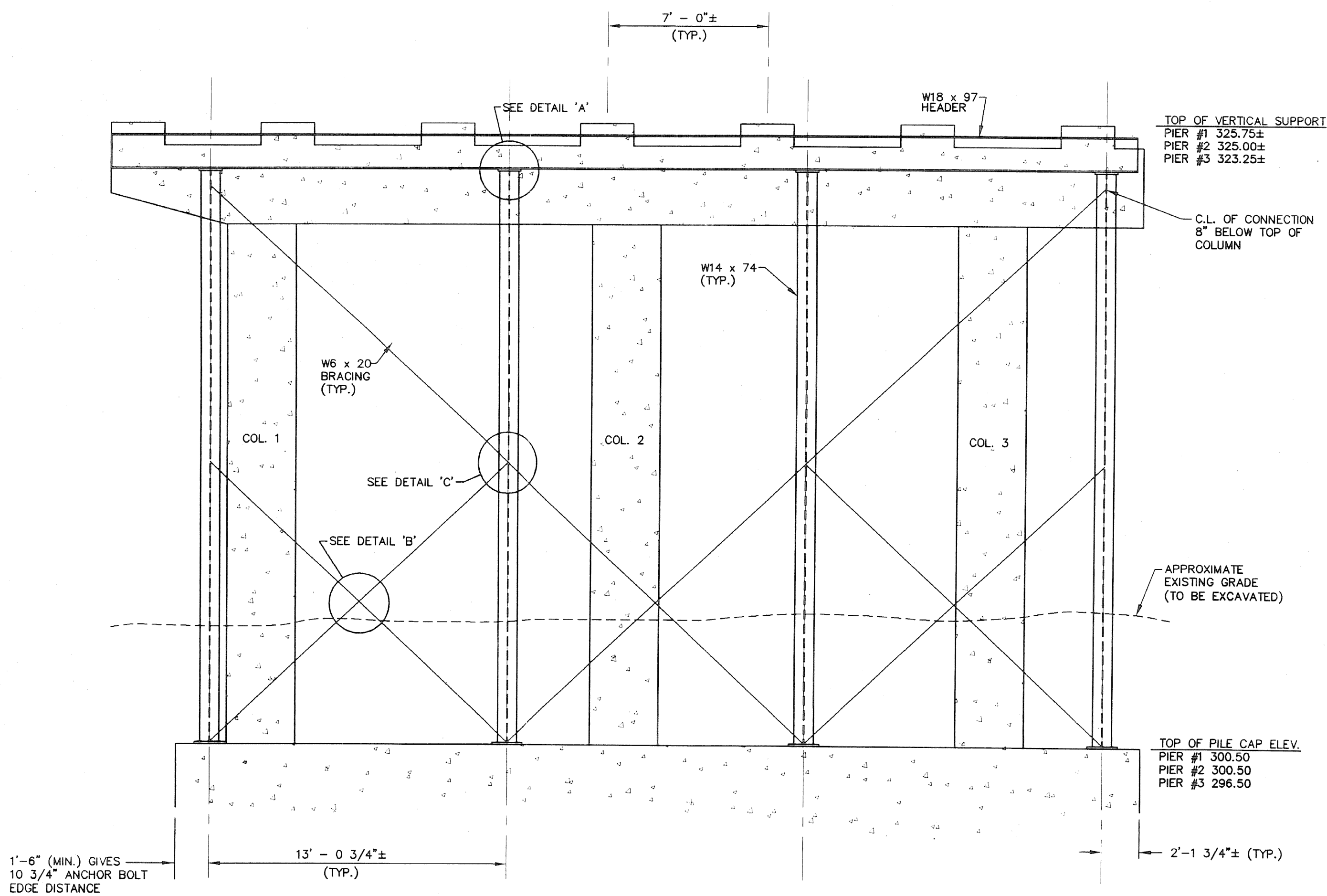
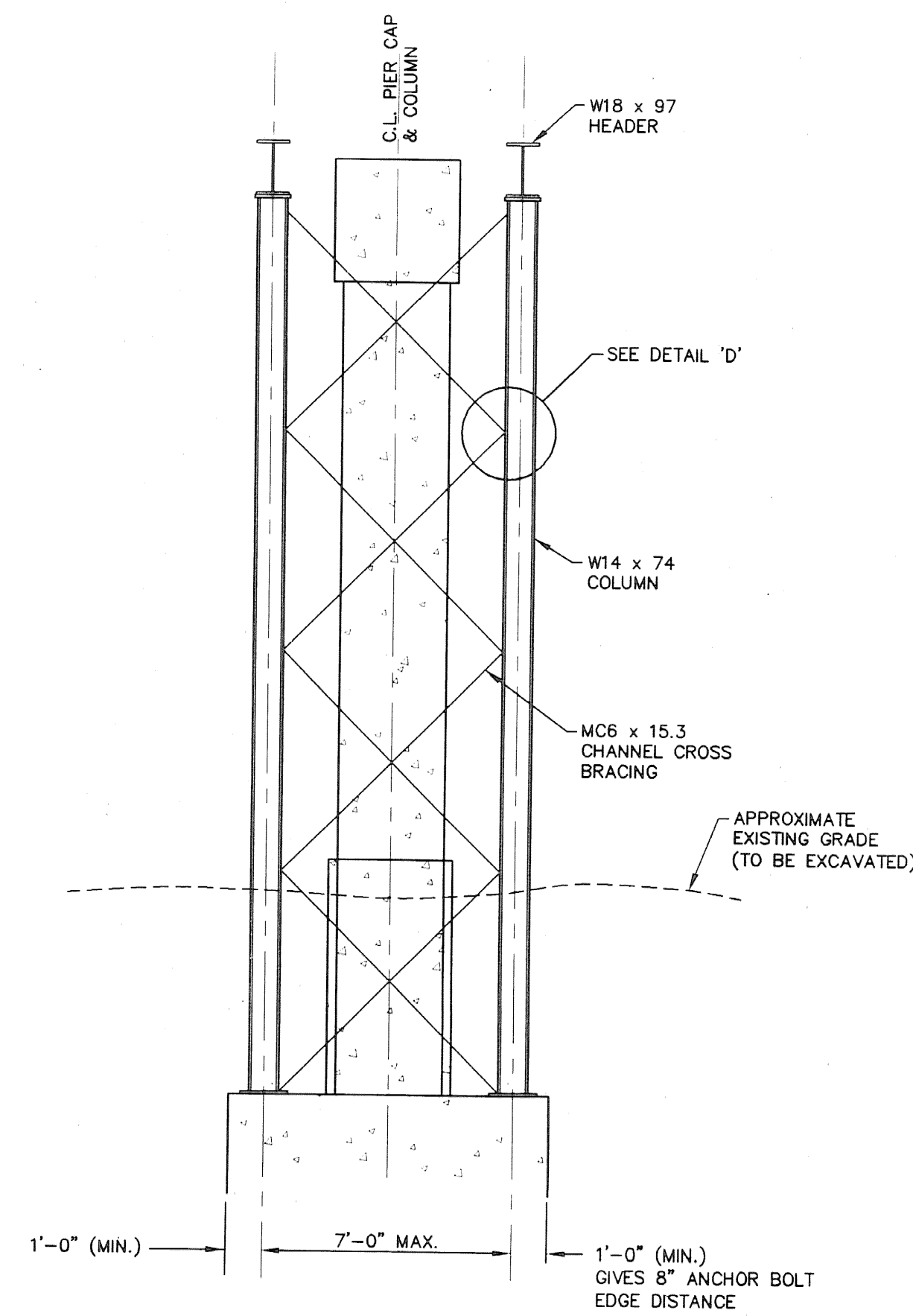
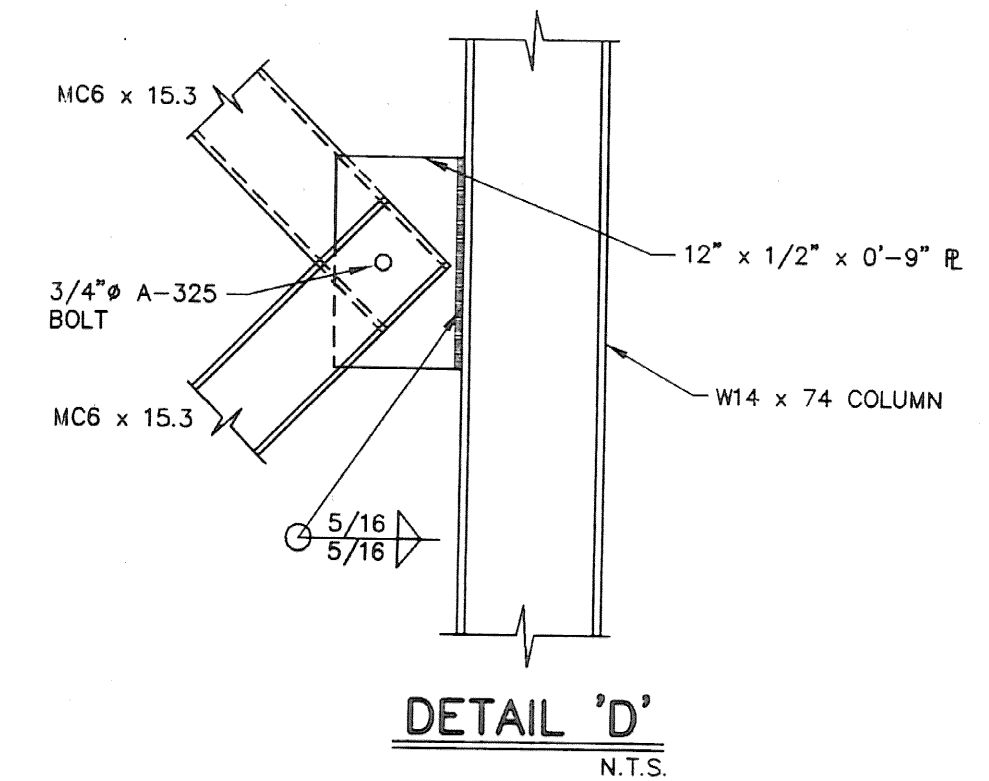




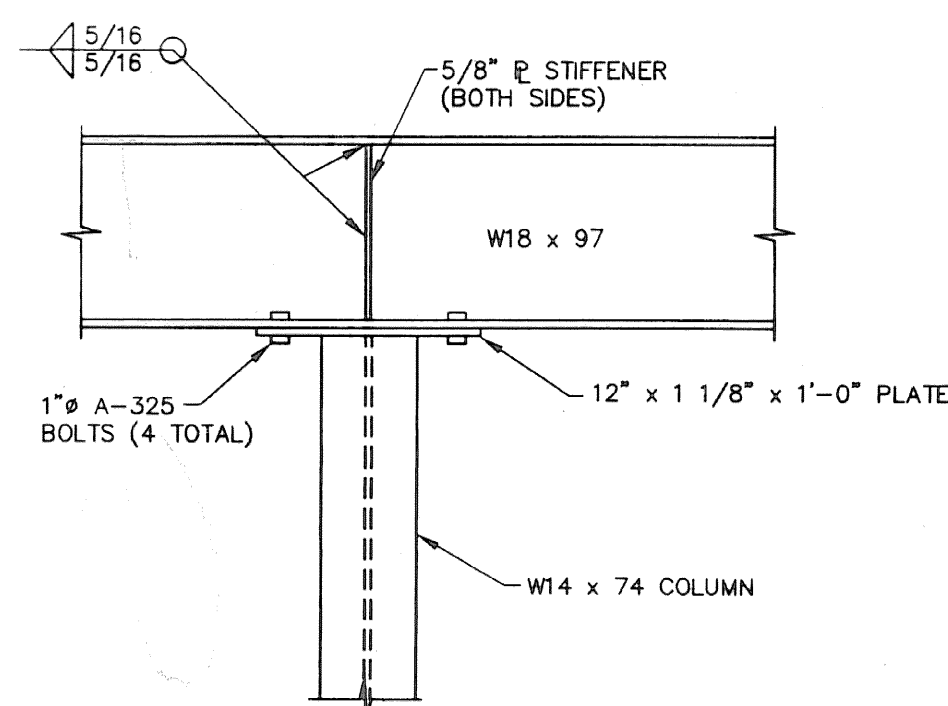
**TYPICAL FRAME LAYOUT FOR SUPPORT**  
1/4\" = 1'-0"



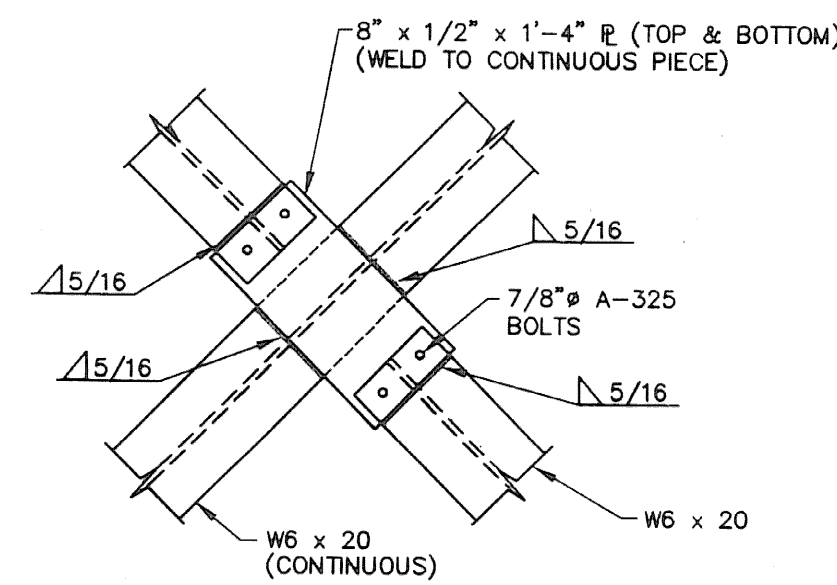
**BRACING SCHEME E-W DIRECTION**  
1/4\" = 1'-0"



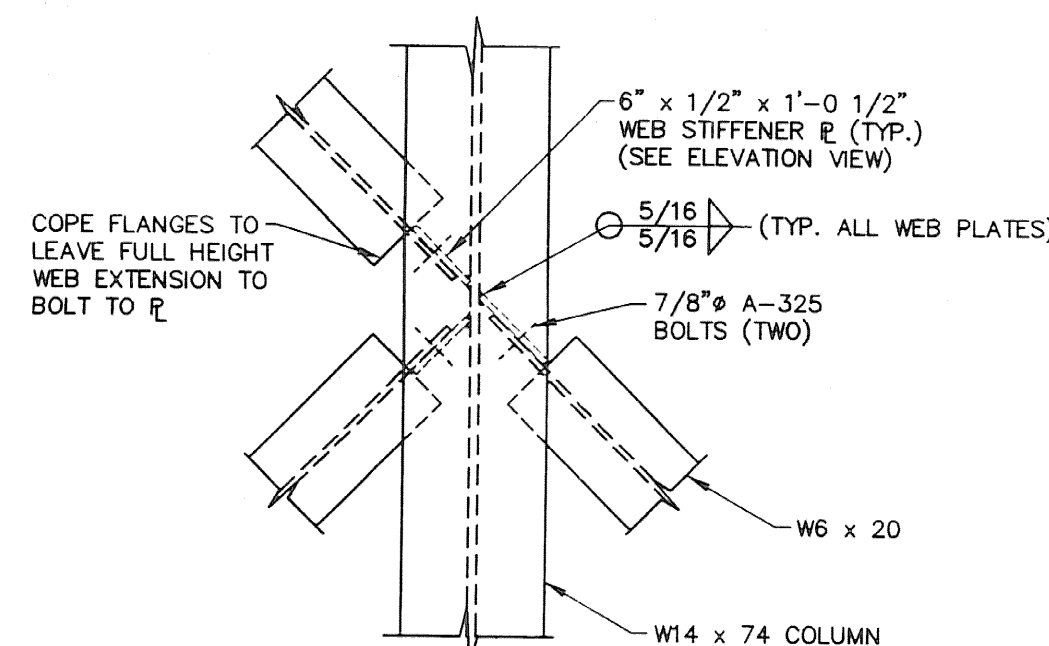
**DETAIL 'D'**  
N.T.S.



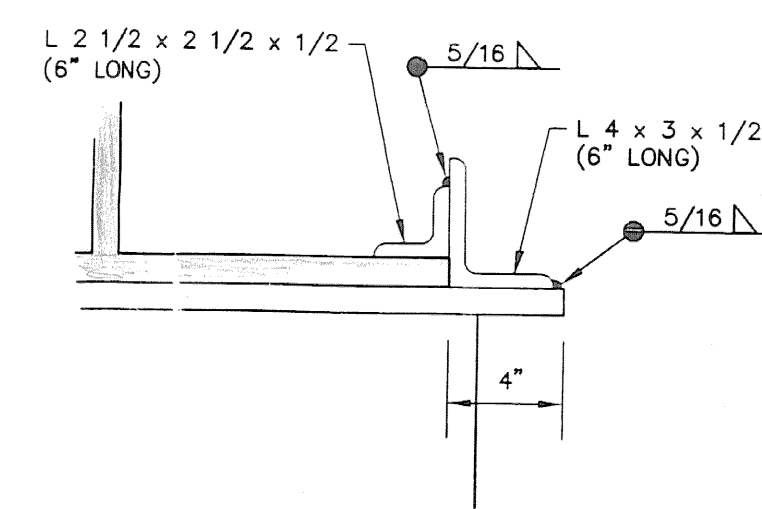
**DETAIL 'A'**  
N.T.S.



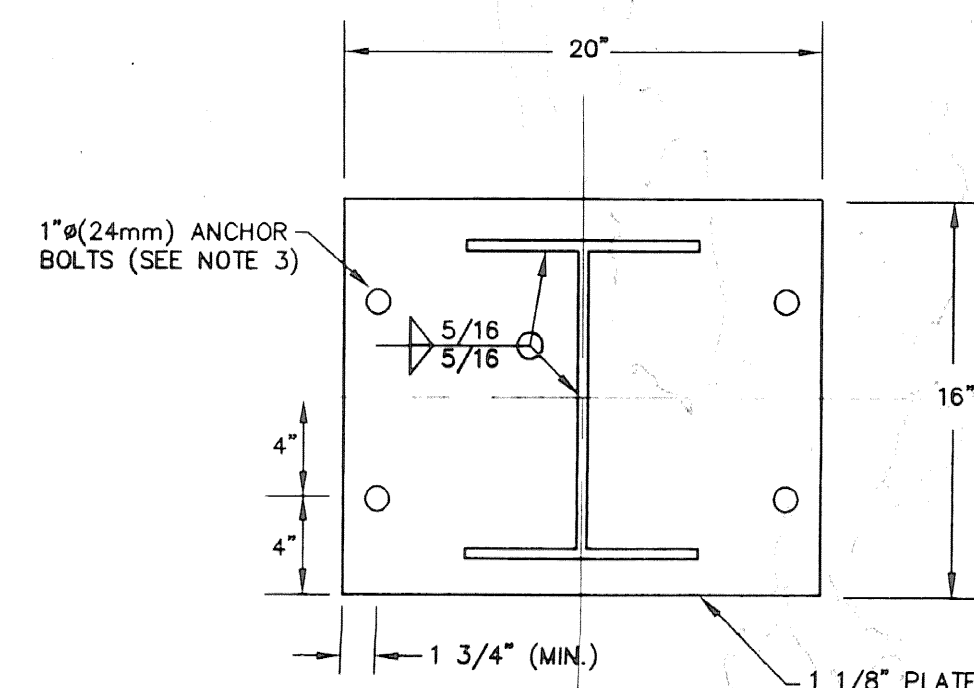
**DETAIL 'B'**  
N.T.S.



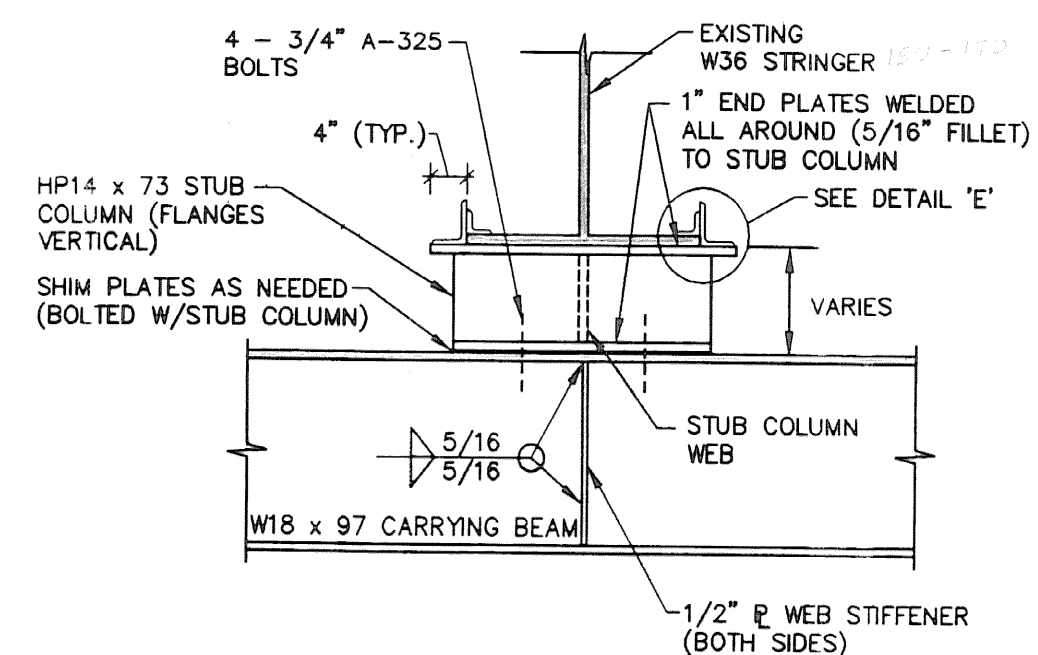
**DETAIL 'C'**  
N.T.S.



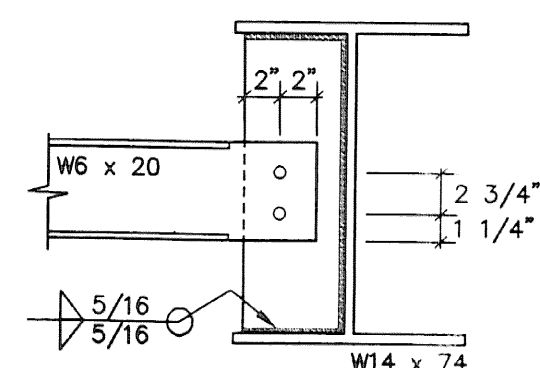
**DETAIL 'E'**  
N.T.S.



**BASE PLATE DETAIL**  
N.T.S.



**DETAIL @ GIRDER (STRINGER) SUPPORT**  
N.T.S.



**ELEVATION VIEW @ DETAIL 'C'**  
N.T.S.

**NOTES:**

- ALL STEEL SECTIONS TO BE A-36 GRADE.
- ALL MEASUREMENTS TO BE FIELD VERIFIED.
- COLUMN BASEPLATES FOR TEMPORARY SUPPORTS TO BE ATTACHED TO EXISTING PILE CAP WITH 1" DIA. A193-B7 THREADED ROD (4 @ EACH COLUMN) INSTALLED TO A MINIMUM EMBEDMENT OF 9 INCHES USING PRO-POXY 300 FAST ADHESIVE. MINIMUM RECOMMENDED EDGE DISTANCE BY SUPPLIER IS 4 DIAMETERS AND FULL CAPACITY ACHIEVED AT 12 DIAMETERS. PRO-RATED FOR 8 DIAMETERS, AS SHOWN ON THE PLANS, THE ALLOWABLE PULL-OUT CAPACITY IS 6100 LBS. PER ROD AND ALLOWABLE SHEAR CAPACITY IS 8620 LBS. PER ROD. THESE ALLOWABLE LOADS MEET VERTICAL AND HORIZONTAL LOAD REQUIREMENTS.
- EXISTING STRINGERS TO BE SECURED TO SUPPORTING BEAM OR STUB COLUMN BY HOLD-DOWN ANGLES OVER BOTTOM FLANGE OF STRINGER.
- JACKING MAY BE ACCOMPLISHED BY TEMPORARILY REPLACING END MC18 x 42.7 DIAPHRAGM BEAM WITH A W18 x 97 JACKING BEAM BOLTED TO DIAPHRAGM PLATES WELDED TO STRINGERS.
- ONE UPPER BRACE (SEE TYPICAL FRAME LAYOUT DETAIL) MAY BE TEMPORARILY REMOVED TO PERMIT ACCESS TO WORK SPACE AT PIER VERTICAL COLUMNS.
- NO MORE THAN TWO OF FOUR LINES OF E-W BRACING (SEE BRACING SCHEME E-W DIRECTION) MAY BE TEMPORARILY REMOVED FOR ACCESS TO WORK SPACE.
- ALL WELDS ARE 5/16" FILLET WELDS USING E70XX ELECTRODES.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.  
P.O. BOX 485 SHELBURNE, VT 05482  
802-985-2323 FAX: 802-985-2271 e-mail: cea@together.net

DRAWN

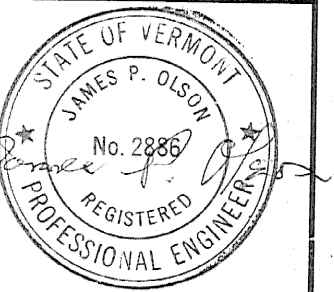
PJM

CHECKED

JPO

APPROVED

JPO



PROJECT:

**J.A. McDONALD**

**WILLISTON ROAD  
BRIDGE SHORING  
AT I-89**

SO. BURLINGTON, VERMONT

**SUBMITTAL REVIEW**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE CONSTRUCTION CONTRACT DOCUMENTS AS SET FORTH IN DIVISION _____, SECTION _____, AND SHEET _____ OF THE PLANS, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS IN THE CONSTRUCTION CONTRACT DOCUMENTS.                                                                                                                                                                                                                                                                                                                                                                 |                                                                            |
| <input type="checkbox"/> REJECTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> REVISE AND RESUBMIT                               |
| <input checked="" type="checkbox"/> FURNISH AS CORRECTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |
| CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS REVIEW IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE CONSTRUCTION CONTRACT DOCUMENTS AS SET FORTH IN DIVISION _____, SECTION _____, AND SHEET _____ OF THE PLANS, AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING WORK WITH THAT OF OTHER TRADES, AND PERFORMING WORK IN A SAFE AND SATISFACTORY MANNER. |                                                                            |
| <b>VHB</b> Vansasse-Hangen Brustin, Inc.<br>Engineers, Planners, and Scientists<br>66 Spaulding Parkway, Milton Rd.<br>Bedford, NH 03110 603-644-0888                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Job Number: <b>50929</b><br>Reviewed By: <b>ASR</b><br>Date: <b>7-5-00</b> |

| DATE    | CHECKED | REVISION                                               |
|---------|---------|--------------------------------------------------------|
| 6/27/00 | JPO     | GENERAL REVISIONS, ADDED DETAIL 'E', ADDED DIMENSIONS. |
|         |         |                                                        |
|         |         |                                                        |
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|         |         |                                                        |
|         |         |                                                        |

**SECTIONS  
and DETAILS**

DATE  
**6/7/2000**

SCALE  
**AS SHOWN**

PROJ. NO.  
**00195**

DRAWING NUMBER

**S1**